



# COSMOTHENE<sup>®</sup> F210-6

## CHARACTERISTICS

**COSMOTHENE F210-6** has excellent strength, good processibility and transparency. It is formulated with medium level of slip and antiblocking agent.

## APPLICATIONS

Shopping bag, transparent bag, sealant film for lamination and many others general purpose bag.

**F210-6** complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 2.1, as long as it is used unmodified and processed according to standard manufacturing practices in the industries.

Note : Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

## PHYSICAL PROPERTIES

| ITEM                      | UNIT              | F210-6 | TEST METHOD |
|---------------------------|-------------------|--------|-------------|
| Melt Flow Rate            | g/10 mins         | 2      | ASTM D1238  |
| Density                   | g/cm <sup>3</sup> | 0.922  | ASTM D792   |
| Tensile Strength at break | Mpa               | 15.7   | ASTM D638   |
| Elongation                | %                 | 600    | ASTM D638   |
| Stiffness                 | Mpa               | 220    | ASTM D747   |
| Melting Point             | °C                | 108    | TPC METHOD  |

## FILM PROPERTIES

| ITEM      | UNIT                 | F210-6 | TEST METHOD |
|-----------|----------------------|--------|-------------|
| Haze      | %                    | 6.0    | ASTM D1003  |
| Gloss     | %                    | 100    | ASTM D2457  |
| Slip      | Tan $\theta$         | 0.17   | TPC METHOD  |
| Blocking  | g/100cm <sup>2</sup> | 25     | ASTM D3354  |
| Thickness | $\mu$                | 30     |             |

## PROCESSING CONDITIONS

Extruder : 50mm $\emptyset$  L/D : 26, C.R : 3.4

|                    |                |                |                |     |     |       |
|--------------------|----------------|----------------|----------------|-----|-----|-------|
| Temperature (°C) : | C <sub>1</sub> | C <sub>2</sub> | C <sub>3</sub> | H   | Die | Stock |
|                    | 130            | 145            | 155            | 160 | 160 | 160   |

- The figures presented are typical laboratory averages, only for reference.
- The information is based on our current knowledge, is subjected to continuous updates and is intended to suggest/ recommend product applications and to provide typical data on the related properties. It should not therefore be construed as guaranteeing any specific property of the product. TPC makes no warranty of any kind, expressed or implied, regarding the accuracy of these data.

